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(54) STEERING GEAR FOR VEHICLE

(57) Abstract:

PURPOSE: To suppress deterioration of steerability of a vehicle equipped with a control means for generating auxiliary steering torque and a control means for generating resilience by providing such constitution as outputting only a command to generate the auxiliary steering torque in the case of failure of the control means for generating resilience.

CONSTITUTION: A control unit 20, which receives respective output signals of a steering angle sensor 15, a torque sensor 16, a yaw rate sensor 17 and a vehicle speed sensor 18, is equipped with a steering auxiliary control means 22, which is for obtaining a desirable target steering torque value in response to a yaw rate value and the like, and an active reaction generating control means 23 which is for finding a target reaction value by a specified algorithm. In this case, a fault detection means 23a is also provided on the reaction generating control means 23 to perform fault diagnosis of the respective sensors or the control means 23 itself. When an fault is detected, output of the target

reaction value from the reaction generating control means 23 is inhibited and only the command to generate auxiliary steering torque is caused to be output to an electric motor 10 for auxiliary steering.

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